Oracle® Banking Liquidity Management Configuration Guide





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Preface

- Purpose
- Audience
- Documentation Accessibility
- · Diversity and Inclusion
- · Related Resources
- Conventions
- Screenshot Disclaimer
- · Acronyms and Abbreviations
- Basic Actions
- Symbols and Icons

Purpose

This guide quickly get acquainted with the many functions every day on a routine basis as part of the End of Day (EOD).

Audience

This guide is intended for Back Office Data Entry Clerk, Back Office Managers/Officers, Product Managers, End of Day Operators, and Financial Controller users.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.



Related Resources

The related documents are as follows:

- Oracle Banking Common Core User Guide
- Oracle Banking Liquidity Management User Guide
- Tasks User Guide

Conventions

The following text conventions are used in this document:

Convention	Meaning	
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.	
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.	
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.	

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

The list of the acronyms and abbreviations that are used in this guide are as follows:

Table 1 Acronyms and Abbreviations

Abbreviation	Description	
API	Application Programming Interface	
EOD	End of Day	

Basic Actions

The basic actions performed in this guide are as follows:

Table 2 Basic Actions

Actions	Description	
Save	Click Save to save the details entered or selected in the screen. Saved record details will be available in 'View Screen'	



Table 2 (Cont.) Basic Actions

Actions	Description	
Close	Click Close to close a record. The system displays a warning message to the user that any unsaved data would be lost. User can either choose to ignore the message and close the screen or choose to 'save' the record	
Cancel	Click Cancel to cancel the action performed without saving any data. The user is alerted that the input data would be lost before confirming the cancellation.	
Next	Click Next to navigate to the next data segment, after successfully capturing the data.	
Create	Click Create to capture the data entered and create the new record. Created record details will be available in 'View Screen'	
Back	Click Back to navigate to the previous data segment, without lost of any data entered or captured from current screen.	
Delete	Click Delete to delete the task listed.	
Fetch	Click Fetch to fetch the EOD details.	
Start	Click Start to invoke the EOD operation.	
Reset	Click Reset to clear the EOD records invoked.	
Retry	Click Retry to restart the EOD operation.	
Refresh	Click Refresh to view the EOD operation.	

Symbols and Icons

This guide has the following list of symbols and icons.

Table 3 Symbols and Icons - Common

Symbol/Icon	Function
J L	Minimize
7 6	
X	Close
Q	Perform Search
K	Navigate to the first record
>	Navigate to the last record



Table 3 (Cont.) Symbols and Icons - Common

Symbol/Icon	Function
4	Navigate to the previous record
•	Navigate to the next record



1

EOD Configuration

This topic provide information about the EOD Configuration process.

This topic contains the following subtopics:

Mapping Functional Activity Code

The topic describes the information to map the functional activity code to perform EOD operations.

Upload DSL

This topic describes the systematic instructions to upload DSL in Business Process maintenance.

Configure EOD

This topic describes the systematic instructions to configure EOD operations

Run EOD for branch

This topic describes the systematic instructions to run the EOD for a branch.

1.1 Mapping Functional Activity Code

The topic describes the information to map the functional activity code to perform EOD operations.

The following functional activity code needs to be maintained in user's role to perform EOD operations:

CMC_FA_BRANCH_EOD_PROCESS



Refer to **Oracle Banking Security Management System User Guide** for the procedure to map the functional activity code in user's role.

1.2 Upload DSL

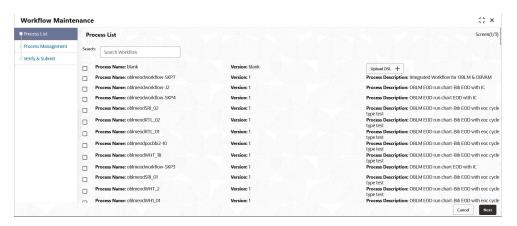
This topic describes the systematic instructions to upload DSL in Business Process maintenance.

Specify User ID and Password, and login to Home screen.

- Download the OBLMEOD.json file. This is a standard batch process definition script for Oracle Banking Liquidity Management that includes the list of batch tasks to be automatically executed in a sequence.
- 2. On **Home** Screen, under **Tasks** menu, click **Business Process Maintenance** to import, create or modify batch process definition

The **Product List** screen displays.

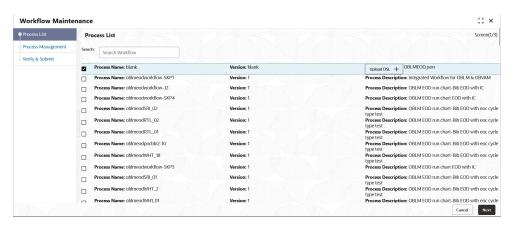
Figure 1-1 Process List



- 3. Select the **Process Name: blank** checkbox.
- 4. Click the **Upload DSL+** button to upload batch process definition.
- Select the file OBLMEod.json from the local folder.

The Process List - Upload DSL screen displays

Figure 1-2 Process List – Upload DSL

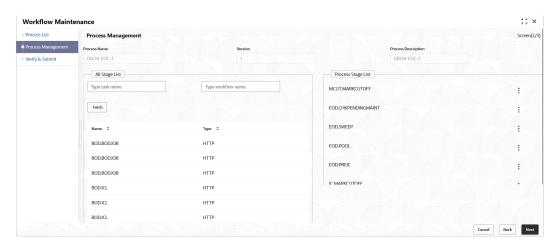


6. Click **Next** button.

The **Product Management** screen displays.



Figure 1-3 Process Management



7. Click Next button.

The Verify and Submit screen displays.

8. Click **Review** or **Create Process** to register the batch.

1.3 Configure EOD

This topic describes the systematic instructions to configure EOD operations

Specify **User ID** and **Password**, and login to **Home** screen.

On Core Maintenance menu, under Branch EOD, click Configure EOD.
 The Configure EOD screen displays.

Figure 1-4 Configure EOD



Note:

To configure batch for a branch, refer the **Configure Branch EOD** section in *Oracle Banking Common Core User Guide*.

2. Click **Search** icon to view and select the **Branch Code** to configure the batch.

1.4 Run EOD for branch

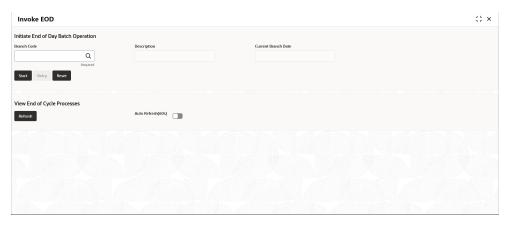
This topic describes the systematic instructions to run the EOD for a branch.

Specify **User ID** and **Password**, and login to **Home** screen.

- 1. On Home Screen, click Core Maintenance. Under Core Maintenance menu, click Branch EOD.
- 2. Under Branch EOD, click Invoke EOD.

The **Invoke EOD** screen displays.

Figure 1-5 Invoke EOD



- 3. Click **Search** icon to view and select the branch code to run EOD.
- 4. Click **Refresh** to view the current status of the branch.



Job Definition Naming Convention

This topic describes the naming convention that to be followed when a custom job is introduced as a task into EOD process.

1. Milestone task name must be prefixed with "MS-". Ex: MS-BranchCutOff

Milestone stage

Milestone stage will pause the batch execution till it is manually resumed.

Sample template for milestone stage

```
{
     "name": "MS-CHKAFTEREOTI",
     "taskReferenceName": "MS-CHKAFTEREOTI",
     "inputParameters": {
         "http request": {
             "connectionTimeOut": "0",
             "readTimeOut": "0",
             "vipAddress": "CMC-BRANCH-SERVICES",
             "uri": "/cmc-branch-services/brancheod/milestone",
             "method": "POST",
             "headers": {
                 "appId": "CMNCORE",
                 "branchCode": "${workflow.input.branchCode}",
                 "userId": "${workflow.input.userID}"
             },
             "body": {
                 "data": [
                         "workflowId": "${workflow.workflowId}",
                         "taskId": "${CPEWF TASK ID}",
                         "waitTime": "5000"
                 ]
     "type": "HTTP",
     "startDelay": 0,
     "optional": false,
     "asyncComplete": true
```

Steps to integrate Custom Jobs

1. If the custom job uses Oracle Banking Microservices Architecture Batch service, then use the below template to include the job as a task in EOD Flow definition.

```
{
   "type":"HTTP",
   "name": "<MilestoneCode.JobName>",
   "taskReferenceName": "<MilestoneCode.JobName>",
   "inputParameters":{
      "http request":{
         "connectionTimeOut":"0",
         "readTimeOut":"0",
         "vipAddress": "PLATO-BATCH-SERVER",
         "uri": "/plato-batch-server/jobLauncher/launch/",
         "method": "POST",
         "headers":{
            "appId":"${workflow.input.appId}",
            "branchCode": "$ {workflow.input.branchCode} ",
            "userId": "${workflow.input.userId}"
         "body": {
            "jobName":"<JobName>",
            "jobParameters":[
                   "key": "appId",
                   "value":"<Application ID of microservice>"
               },
                   "key": "microServiceName",
                  "value": "<Microservice name>"
               },
                   "key": "contextRoot",
                   "value": "<Context root of microservice>"
               },
                  "key": "workflowId",
                   "value": "${workflow.workflowId}"
               },
                   "key": "referenceTaskName",
                   "value": "<MilestoneCode.JobName>"
               },
                   "key": "userId",
                   "value": "${workflow.input.userId}"
               },
                   "key": "branchCode",
                   "value": "${workflow.input.branchCode}"
               },
                   "key": "isCallback",
                   "value":"Y"
               },
```



2. If the custom job doesn't use the Oracle Banking Microservices Architecture Batch service. The Batch API is implemented as a synchronous call, use the below template to include the job as a task in EOD Flow definition.

```
{
  "type": "HTTP",
  "name": "<MilestoneCode.JobName>",
  "taskReferenceName": "<MilestoneCode.JobName>",
  "inputParameters":{
      "http request":{
         "connectionTimeOut":"0",
         "readTimeOut":"0",
         "vipAddress":"<Microservice name registered in eureka>",
         "uri":"<relative URL>",
         "method": "<HTTP Method>",
         "headers":{
            "appId":"${workflow.input.appId}",
            "branchCode": "${workflow.input.branchCode}",
            "userId": "${workflow.input.userId}"
      },
      "asyncComplete":false
  },
  "startDelay":0,
  "optional":false,
  "asyncComplete":true
```

Note:

HTTP Method - One of the GET, PUT, POST, DELETE, OPTIONS, HEAD

3. If the custom job doesn't uses Oracle Banking Microservice Architecture Batch service and if the Batch API is implemented as an asynchronous call, then call back needs to be implemented in the respective API. Use the below template to include the job as a task in EOD Flow Definition.

```
"type":"HTTP",
   "name":"<MilestoneCode.JobName>",
```



```
"taskReferenceName": "<MilestoneCode.JobName>",
"inputParameters":{
   "http request":{
      "connectionTimeOut":"0",
      "readTimeOut":"0",
      "vipAddress":"<Microservice name registered in eureka>",
      "uri":"<relative URL>",
      "method": "<HTTP Method>",
      "headers":{
         "appId":"${workflow.input.appId}",
         "branchCode": "${workflow.input.branchCode}",
         "userId":"${workflow.input.userId}"
     }
   },
   "asyncComplete":true
} ,
"startDelay":0,
"optional":false,
"asyncComplete":true
```

Table 2-1 Batch API

Method	Post	Description
URL	http:// <hostname>:<port>/plato-orch- service/api/tasks</port></hostname>	-
Headers	userId : <logged id="" in="" user=""></logged>	userId – User who updates the task
	branchCode : <logged branch="" code="" in=""></logged>	branchCode – Branch where the update is performed.
	appld : platoorch	
	Content-Type : application/json	
	Accept : application/json	
Body	{ "workflowInstanceId":	EOD_Workflow_ID – A Workflow ID gets generated when EOD is invoked
	<pre>"<eod_workflow_id", "<task_id="" "taskid":="">", "status": "<status>"}</status></eod_workflow_id",></pre>	Task_ID – Unique task ID gets generated for each task once it starts
	, constant in the second of th	Status – COMPLETED / FAILED_WITH_TERMINAL_ERROR / FAILED / IN_PROGRESS

Note:

asyncComplete – field in EOD workflow definition should be set to true if the Http task makes an asynchronous call and the task has to be updated explicitly by calling above update APIs. Only after successful update, next task will get executed.



3

Oracle Banking Liquidity Management Job

The topic describes the Oracle Banking Liquidity Management Job names and its descriptions.

Table 3-1 Oracle Banking Liquidity Management Job

S.No	EOD stage	Job Name	Description	Input Parame ters
1	MCUT	markcutoff	Job will check for pending tasks and any existing running process before starting EOD	BranchC ode
2	EOD	CHKPENDINGMAI NT	Job will check pending maintenances that required approval.	BranchC ode
3	EOD	SWEEP	Job will execute sweep process scheduled to run during EOD	BranchC ode
4	EOD	CLEAR_BALANC E_CACHE	Job will clear the Value Dated balance cache that's populated during EOD Sweep executions.	BranchC ode
5	EOD	POOL	Job will execute all pool structures.	BranchC ode
6	EOD	PREIC	Job will execute the tasks that are required to run before starting Interest batch	BranchC ode
7	EOD	IC.MARKCUTOFF	Job will check for pending tasks and any existing running process before starting Interest batch	BranchC ode
8	EOD	OBLM-IC	Job will execute Interest batch	BranchC ode
9	MS-EOFI	MS-EOFI	Milestone for the end of financial input	BranchC ode
10	EOFI	MARKEOFI	Job will mark the end of financial input	BranchC ode
11	MS- CHKB4FLIPDATE	MS- CHKB4FLIPDATE	Milestone for date flip	BranchC ode
12	EOD	CMC.DATEFLIP	Job will change system date to next working date in common core	BranchC ode
13	EOD	OBLM.DATEFLIP	Job will change system date to next working date in Oracle Banking Liquidity Management	BranchC ode
14	EOD	RCUT.RELEASEC UTOFF	Job will mark release cutoff after EOD.	BranchC ode
15	EOD	IC.RELEASECUT OFF	Job will mark release cutoff for IC Batch.	BranchC ode
16	BOD	BOD.REALLOC	Job will execute reallocation.	BranchC ode



Table 3-1 (Cont.) Oracle Banking Liquidity Management Job

S.No	EOD stage	Job Name	Description	Input Parame ters
17	BOD	BOD.SWEEP	Job will execute the Reverse sweep and BOD sweeps in sequence	BranchC ode
18	BOD	TI.MARKTI	Job will mark the transaction inputs	BranchC ode
19	BOD	BOD.ICL	Job will execute the ICL	BranchC ode
20	BOD	chargeCalculationJ ob	JoB will calculate the LM charges for given branch code	BranchC ode
21	BOD	chargePostingJob	Job will post the LM charges for given branch code	BranchC ode
22	OBLM	OBLM.UPDATEDE FERREDENTRY	Job will update the Deferred entries for pool contribution for given BranchCode	BranchC ode
23	OBLM	OBLM.UPLOADIN TERESTACCRUAL REPORT	Job will update the Accrual Interest details for given BranchCode	BranchC ode
24	IC	IC.INTRADAYBAT CH	Job will update the Intra day batch to notify UBS	BranchC ode
25	OBLM	OBLM.UPDATEST RUCTURESTATU S	Job will update the status of all structures under the EOD branch	BranchC ode
26	OBLM	OBLM.DATEFLIP	Job will update the branch date of the EOD branch in LM table	BranchC ode
27	OBLMIC	OBLMIC.DATEFLI P	Job will update the branch dates of the EOD branch in OBLM IC tables	BranchC ode



4

Intraday Jobs

This topic provide information about the Intraday Jobs.

This topic contains the following subtopics:

- Create Task
 This topic describes the systematic instructions to create the task.
- Configure Tasks
 This topic describes the systematic instructions to configure the tasks.

4.1 Create Task

This topic describes the systematic instructions to create the task.

Oracle Banking Liquidity Management Intraday jobs required the following tasks to be created :

On Home screen, under Task Management menu, click Create Task.
 The Create Task screen displays.

Figure 4-1 Create Task





The fields marked as **Required** are mandatory.

2. Specify the values mentioned in the following table.

Table 4-1 Intraday Job - Task Values

SI. no	Task Name	Task Definition
1	OBLM_intraDayAccountP airSweepJob_INT_001	appld:::LMS;microServiceName:::oblm-sweep- services;contextRoot:::oblm-sweep- services;type:::schedule;jobName:::intraDayAccount PairSweepJob;cronExpression:::0 0/5 * * * ?;
2	OBLM_intraDayStructure SweepJob_INT_002	appld:::LMS;microServiceName:::oblm-sweep- services;contextRoot:::oblm-sweep- services;type:::schedule;jobName:::intraDayStructure SweepJob;cronExpression:::0 0/5 * * * ?;
3	OBLM_processMTHoldM essagesJob_INT_003	appld:::LMG;microServiceName:::oblm-messaging- services;contextRoot:::oblm-messaging- services;type:::schedule;jobName:::processMTHoldM essagesJob;cronExpression:::0 0/5 * * * ?;
4	OBLM_pendingPayments Job_INT_004	appld:::LMX;microServiceName:::oblm-integration- services;contextRoot:::oblm-integration- services;type:::schedule;jobName::: pendingPaymentsJob;cronExpression:::0 0/5 * * * ?;
5	OBLM_publishEventsLog Job_INT_005	appld:::LMX;microServiceName:::oblm-integration- services;contextRoot:::oblm-integration- services;type:::schedule;jobName:::publishEventsLog Job;cronExpression:::0 0/10 * * * ?;
6	OBLM_pendingReallocati onJob_INT_006	appld:::LMX;microServiceName:::oblm-integration- services;contextRoot:::oblm-integration- services;type:::schedule;jobName:::pendingReallocat ionJob;cronExpression:::0 0/10 * * * ?;
7	sweepEventsFetch	appld:::LMD;microServiceName:::oblm-dashboard- services;contextRoot:::oblm-dashboard- services;type:::schedule;jobName:::sweepLMDEvent sJob;cronExpression:::0 0/5 * * * ?'
8	savetoChargeCalCollJob _LM	appld:::VAMLMCHG;microServiceName:::vamlm-charge-services;contextRoot:::vamlm-charge-services;jobName:::savetoChargeCalCollJob;appCode:::LMCHG;
9	chargePostingJob_LM	appld:::VAMLMCHG;microServiceName:::vamlm-charge-services;contextRoot:::vamlm-charge-services;jobName:::chargePostingJob;appCode:::LM CHG;
10	chargeCalculationJob_L M	appld:::VAMLMCHG;microServiceName:::vamlm-charge-services;contextRoot:::vamlm-charge-services;jobName:::chargeCalculationJob;appCode:::LMCHG;
11	savetoChargeCalCollJob _VAM	appId:::VAMLMCHG;microServiceName:::vamlm-charge-services;contextRoot:::vamlm-charge-services;jobName:::savetoChargeCalCollJob;appCode:::VAMCHG;
12	chargePostingJob_VAM	appld:::VAMLMCHG;microServiceName:::vamlm-charge-services;contextRoot:::vamlm-charge-services;jobName:::chargePostingJob;appCode:::VAMCHG;
13	chargeCalculationJob_VA M	appld:::VAMLMCHG;microServiceName:::vamlm-charge-services;contextRoot:::vamlm-charge-services;jobName:::chargeCalculationJob;appCode:::VAMCHG;



3. Click **Create** to create the task for each Intraday job.

4.2 Configure Tasks

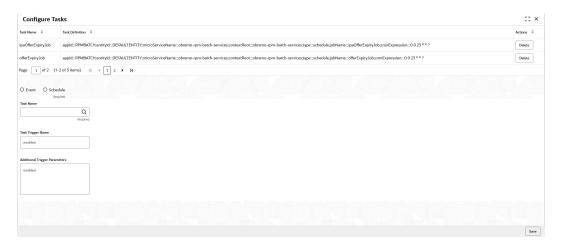
This topic describes the systematic instructions to configure the tasks.

The Configured intra-day jobs will get triggered as per the specified Cron Expression, for the Create Task the scheduler needs to be configured as shown as follows.

On Home screen, under Task Management menu, click Configure Tasks.

The Configure Tasks screen displays.

Figure 4-2 Configure Tasks



Note:

The fields marked as **Required** are mandatory.

- 2. Select the Schedule button.
- 3. Select the task name from the **Task Name** drop-down list.
- 4. Specify the trigger name in **Task Trigger Name** field.
- 5. Specify the required CRON expression in **CRON Expression** field.
- 6. Click **Save** to configure the task.



A

Functional Activity Codes

Table A-1 List of Functional Activity Codes

Screen Name	Functional Activity Code	Action	Purpose
Batch	LMS_FA_SWEEPDATA_VIE W	View	This functional activity code is used to fetch the sweep data to provide the next execution date in case of Intraday account pair sweeps and to fetch account pairs based on frequency in case of EOD/BOD account pair executions.
Batch	LMS_FA_SWEEPDATA_CRE ATE	Create	This functional activity code is used to create the sweep data during structure creation.
Batch	LMS_FA_SWEEPDATA_UPD ATE	Update	This functional activity code is used to update existing sweep data during structure modification.
Batch	LMX_FA_PENDING_AUTH_ VIEW	Authoriz ation View	This functional activity code is used to view the maintenance pending for authorization.
Batch	LMX_FA_HAS_PENDING_A UTH	Pending Authoriz ation	This functional activity code is used to check whether the branch has any pending maintenance for authorization.



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